Original/Duplicate/Triplicate

. 17 1st & final Bill

CONTRACT CERTIFICATE

NO

Division Yelahanka

Bills received No

Sheduled Docket No

YNK-DBR No.....

Sub division

Sub-divisional

Divisional

Head of account P-1878

Reference paras 158 & 170

ಸ.ರಾ.ಅ / ಯ.ಉ.ವಿ.
ಎಸ್.ಬಿ.ಆರ್. ಸಂಖ್ಯೆ: 0027
ದಿನಾಂಕ: 21-9-2024

Yelahanka Date

Cash book vr No

Date

Name of work(as per sanctioned estimate):-

Work Code:-002-24-000010

NAME OF WORK :- Construction of Anganawadi Building at JP Colony in Ward No.02

Name of contractor and full address :-

Agency:- Sri RAGHUNATHA B P, No.47,2nd Main,Muneshwara Layout,Bangalore-560058

Reference to agreement No :- 57

Estimated cost : 50.00 Lakhs **Work order No:-30, Date:-09/03/2024**

Certified that the measurments were taken by me on 17/08/2024 and recorded on pages **586727** to **586748** of measurment book No **5868** and the work is satisfactorily executed by the contractor.

Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on 17/08/2024 and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Sub-divisional officer

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%---------	Gross Amt	5133172=00
3) Balance---	FSD	—
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional	CGST	43481=00
cash book vr No----------dated----------S.D No----------Amount adjusted towards cash advance recovery of	SGST	43481=00
b) Cost of payments/stores or other materials supplied now made recovery of amount creditable to this/other work.	IT	43481=00
Amount paid on this bill by cheque/cash	LC	43481=00
Total		
5). Balance being unpaid value of work done held in reserve	CBF	4349=00
6) Deduct cash of advance made on divisional/sub divisional cash book vr No----------dated----------last adjustment.	Royalty	23828=00
7) Net amount due to or from contractor.		
UN ADJUSTED ITEMS	Total dedn	202101=00
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.	Net Amt	4931071=00
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------by cash and by adjustment----------

of payment as per memorandum

(in final settlement of all demand)

Reciept Stamp

Witness

1)

2)

Dated signature of contractor

paid by me cheque No dated

Cash Rs.....

Date

Initials of officer making payment

Date

Audited & Admitted for Rs. 5133172=00

4931071=00 by Cheque

and Rs. 202101=00 by adjusement

24/09

Accts. Supdt.
Yelahanka Division
BBMP

Executive Engineer

Exe. Engineer
Yelahanka Division
BBMP

Sl No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	2	3	4	5	6	7	8	9	10
1	Engaging on Hire Basis of Tractor -Trolley for conveying of excavated and removal of stuff from work spot.	Hour			480.00	**681.66**	327196.80	**480.00**	327196.80
2	Labour charges to unskilled mazdoor heavy.	Day			300.00	**500.66**	150198.00	**300.00**	150198.00
3	Concrete cutting machine.	Hour			2880.00	**187.41**	539740.80	**2880.00**	539740.80
4	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m.	Cum			128.30	**225.40**	28919.50	**128.30**	28919.50
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.Specification	Cum			18.03	**6515.12**	117461.10	**18.03**	117461.10
6	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6	Cum			13.78	**7236.63**	99746.09	**13.78**	99746.09
7	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) Mix 1:2:4 (M15) Using 20 mm nominal size graded crushed coarse aggregates	Cum			1.76	**6904.76**	12148.93	**1.76**	12148.93
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum			80.97	**181.23**	14674.19	**80.97**	14674.19
9	**Loading and Unloading of Stone Boulder**/Stone aggregates/ Sand/Kankar/Moorum.	Cum			209.66	**97.41**	20422.98	**209.66**	20422.98
10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km	T.Km			268.36	**121.09**	32495.71	**268.36**	32495.71

									Total Up to date				
									Qty	Cost			
									9	10			
11	Providing and constructing laterite size stone masonry including cost and conveyance of all material curing etc complete as per specification IS 3620/1979 having compressive strength not less than 3.5N/mm2 for saturated dry samples- for super structure in CM 1:6					Cum			4.08	**4481.98**	18286.48	**4.08**	18286.48
12	Providing Flush/ Ruled pointing: Pointing on stone work with cementmortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineer-in-charge.					Sqm			3.75	**288.83**	1081.67	**3.75**	1081.67
13	Providing and laying in position Reinforced cement concrete for all **Sub structures of building,** Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates					Cum			33.48	**7705.46**	257967.24	**33.48**	257967.24
14	Providing and laying in position Reinforced cement concrete for all **Super structures of building** , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates Ground floor					Cum			1.84	**8088.62**	14850.71	**1.84**	14850.71
15	Lintels					Cum			1.14	**8823.95**	10059.30	**1.14**	10059.30
16	Roof Slab					Cum			6.38	**8823.95**	56296.80	**6.38**	56296.80
17	Beam					Cum			1.55	**8823.95**	13677.12	**1.55**	13677.12
18	First floor,Columns					Cum			1.66	**8169.51**	13561.39	**1.66**	13561.39
19	Lintels					Cum			0.93	**8912.19**	8288.34	**0.93**	8288.34
20	Roof Slab					Cum			6.26	**8912.19**	55785.85	**6.26**	55785.85
21	Beam					Cum			1.80	**8912.19**	16041.94	**1.80**	16041.94

hount		
8		
96.80	**480.00**	327196.80
98.00	**300.00**	150198.00
0.80	**2880.00**	539740.80
.50	**128.30**	28919.50
0	**18.03**	117461.10
	13.78	99746.09
	1.76	12148.93
	30.97	14674.19
	9.66	20422.98
	.36	32495.71

22	Providing and laying in position plain cement concrete for levellingcourse for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately)Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregates	Cum			5.44	**6712.20**	36512.69	**5.44**	36512.69
23	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)	kg			9417.30	**108.74**	1024037.37	**9417.30**	1024037.37
24	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications. Ground floor	Sqm			60.15	**1483.80**	89250.57	**60.15**	89250.57
25	First floor:-	Sqm			59.07	**1498.64**	88524.66	**59.07**	88524.66
26	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm			25.92	**1394.32**	36140.77	**25.92**	36140.77
27	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x100x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm			22.86	**1250.47**	28585.74	**22.86**	28585.74
28	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Sqm			217.87	**436.08**	95007.66	**217.87**	95007.66
29	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications .	Sqm			151.73	**365.85**	55510.42	**151.73**	55510.42

30	Providing rough cement plastering 15mm thick in single coat with cement mortar 1:4 to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, inclding cost of materials, labour, curing complete as per specifications ,	Sqm			41.71	**395.30**	16487.96	**41.71**	16487.96
31	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge.	Sqm			151.73	**113.27**	17186.46	**151.73**	17186.46
32	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm			151.73	**130.26**	19764.35	**151.73**	19764.35
33	Providing external walls with texture finish using approved brand paint, applied uniformly in three coats over one coat of primer including cost of all materials, machineries, labour, transportation, loading and unloading, all lead and lift and all other incidental charges including scaffolding and removing stains, complete as per specifications.	Sqm			217.87	**201.62**	43926.45	**217.87**	43926.45
34	Providing and laying 52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per direction of Engineer incharge.	Sqm			32.49	**906.14**	29440.49	**32.49**	29440.49
35	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.	Sqm			71.30	**3230.37**	230328.61	**71.30**	230328.61
36	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per m2 including pointing in white cement mixed with pigment of matching shade complete.	Sqm			10.08	**1252.73**	12627.52	**10.08**	12627.52

37	viding skirting, dadooing, rises of steps with colour glazed tiles 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Sqm			41.76	**1641.24**	68538.18	**41.76**	68538.18
38	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.	No's			4.00	**1150.79**	4603.16	**4.00**	4603.16
39	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications.	Cum			0.18	**156392.28**	28150.61	**0.18**	28150.61
40	Providing and fixing in position fully panelled Honne wood shutters for doors with , stiles and rails of 35mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)	sqm			7.56	**8024.97**	60668.77	**7.56**	60668.77
41	Painting wood work with Deluxe Multi Surface Paint of required shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @0.75 ltr/10 m² of approved brand and manufacture to give an even shade including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering and knotting , cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm			1.20	**156.31**	187.57	**1.20**	187.57
42	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made).	Sqm			5.39	**6477.74**	34898.82	**5.39**	34898.82
43	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc.	kg			1020.00	**207.59**	211741.80	**1020.00**	211741.80

44	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer including cost of materials ,labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Sqm			3.60	**9373.98**	33746.33	**3.60**	33746.33
45	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.	Sqm			23.40	**157.44**	3684.10	**23.40**	3684.10
46	Providing and laying water proofing treatment to the Water tanks & Liquid Retaining structures with two component acrylic polymer modified cementitious waterproofing membrane with minimum elongation of 50% applied @ 1.5 kg/m2 for internal side waterproofing in two layers with waiting period of 4-6 hrs per layer and food grade epoxy coating in two coats certified by CFTRI Mysuru, including surface preparation completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.	Sqm			32.43	**574.26**	18621.82	**32.43**	18621.82
47	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity)	Ltr			2000.00	**10.19**	20380.00	**2000.00**	20380.00
48	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid	Each			2.00	**5479.86**	10959.72	**2.00**	10959.72
49	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each			2.00	**5044.91**	10089.82	**2.00**	10089.82
50	PTMT grating 100 mm dia.	Each			2.00	**16.99**	33.98	**2.00**	33.98
51	White Vitreous China Flat back wash basin size 550x 400 mm	Each			2.00	**622.97**	1245.94	**2.00**	1245.94
52	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	No's			12.00	**345.46**	4145.52	**12.00**	4145.52
53	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	No's			2.00	**345.46**	690.92	**2.00**	690.92

54	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore	No's				2.00	**355.66**	711.32	**2.00**	711.32
55	Rectangular shape 1500x450 mm Mirror with Plastic moulded frame	Each				2.00	**815.52**	1631.04	**2.00**	1631.04
56	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) 20mm nominal dia pipes	Mtr				48.00	**429.28**	20605.44	**48.00**	20605.44
57	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS:5382, leaving 10mm gap for thermal expansion, [i] single socketed pipes 100mm diameter	Mtr				12.00	**329.61**	3955.32	**12.00**	3955.32
58	Construction of Embankment by excavating the available approved Gravel/Murrum deposited at a place or borrow pits during or prior excavation with all lifts and lead, transportation to site, spreading, grading to required slope and compacting to meet the requirement complete as per specifications, including cost of labour,rolling,water,all materials,usage& all other appurtenaces required to complete the work.	Cum				19.46	**455.33**	8862.20	**19.46**	8862.20
59	Providing and laying water proofing treatment to the Water tanks & Liquid Retaining structures with two component acrylic polymer modified cementitious waterproofing membrane with minimum elongation of 50% applied @ 1.5 kg/m2 for internal side waterproofing in two layers with waiting period of 4-6 hrs per layer and food grade epoxy coating in two coats certified by CFTRI Mysuru, including surface preparation completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.	Sqm				48.24	**574.26**	27702.30	**48.24**	27702.30
60	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments2 HP, Size 50x40 Head 22M, Discharge 186 LPM	Each				1.00	**19787.74**	19787.74	**1.00**	19787.74
61	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/20mm dia 2mm thick	Mtr				350.00	**70.02**	24507.00	**350.00**	24507.00
62	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8''x6''x3''(203x152x76mm)	Each				6.00	**77.23**	463.38	**6.00**	463.38

63	t wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch	Each			8.00	**284.20**	2273.60	**8.00**	2273.60
64	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials b) Medium point above 3Mtr upto 6Mtr from tapping pointr to out let via switch	Each			4.00	**397.46**	1589.84	**4.00**	1589.84
65	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materialsc)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Each			6.00	**583.84**	3503.04	**6.00**	3503.04
66	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way	Each			1.00	**147.25**	147.25	**1.00**	147.25
67	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm	Mtr			325.00	**26.77**	8700.25	**325.00**	8700.25
68	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.b)2.5Sqmm	Mtr			360.00	**41.19**	14828.40	**360.00**	14828.40
69	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.c) 4 sqmm	Mtr			335.00	**60.75**	20351.25	**335.00**	20351.25
70	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws	Sqm			1500.00	**0.30**	450.00	**1500.00**	450.00

71	Supplying and fixing retrofit type -PL-LED lamp...W LED linear Source with CCT 6500 degree K, CRI>70%efficacy>80 lumen per watt,life>25000 burning hours and compliance to IS 10322/IEC 60598,LM 79 and LM80.The LED are driven by HF electronicdriver integrated in the system, with PF>0.95, power loss Should <5% of lam Wattage.,short Circuit and open circuit Protection to be integrated Circuit, THD less than 20%,life as per LM79.the operating input voltage should be between130 t 275 volts.Tested by NABL/CPRI accredited laboratory with 2 years Warranty agnist any manufacturing defect working under standard electrical condition.18-20Watts	Each			18.00	**711.52**	12807.36	**18.00**	12807.36
72	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply	Each			8.00	**135.92**	1087.36	**8.00**	1087.36
73	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5"	Each			4.00	**324.36**	1297.44	**4.00**	1297.44
74	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps	Each			6.00	**205.94**	1235.64	**6.00**	1235.64
75	Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A	Each			1.00	**5338.99**	5338.99	**1.00**	5338.99
76	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)6-32amps TPN . Group A	Each			1.00	**2470.25**	2470.25	**1.00**	2470.25
77	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. 6-32amps TPN Group A	Each			1.00	**1829.78**	1829.78	**1.00**	1829.78
78	Supplying, fixing and wiring Electronic Trivector Meter (ETV) 5 to 32/63 A three phase 4 wire whole current class-1 Accuracy Energy Meter.	Each			2.00	**5277.21**	10554.42	**2.00**	10554.42
79	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia	No's			1.00	**3088.07**	3088.07	**1.00**	3088.07
80	Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 25x3mm	Mtr			30.00	**77.23**	2316.90	**30.00**	2316.90

81	...ing and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm	Mtr			4.00	**344.95**	1379.80	**4.00**	1379.80
							Total RS	**4348095.10**	**4348095.10**
							Add 18% of GST charges RS	782657.12	782657.12
							Sub Total RS	**5130752.22**	**5130752.22**
82	Bescom Deposite Charges						2420.00		
					1.00	**15000.00**	15000.00	**1.00**	15000.00
							Grand Total RS	**10276504.45**	**5145752.22**

Certificate:-

i) Certified that the above work done is satisfactory completed.

ii) Certified that the,There is no debries have been cleared to site.

AE

Ward no 02

Bescom charges 2420.00

Grand 5133.172.00

Assistant Executive Engineer

Yelahanka Sub Division

(BBMP Ynk. Zn)

Yelahanka, Bangalore